

**Algebra 2 CP Summer Assignment Pacing Guide**

**Directions:** In order to prepare for starting Algebra 2 CP next fall, we would like you to review skills you should have mastered in Algebra 1, over the summer, to be successful in Algebra 2.

Each practice set focuses on a certain objective/skill. If you are having difficulty remembering how to complete the skill you can you tube or google the topic.

A calendar timeline is provided below. You should focus on one practice set a week. The practice set should be completed by the second time your Algebra 2 CP class meets.

July						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Start Practice set #1	2	3	4	5
6 Complete Practice Set #1	7 Start Practice set #2	8	9	10	11	12
13 Complete Practice Set #2	14 Start Practice set #3	15	16	17	18	19
20 Complete Practice Set #3	21 Start Practice set #4	22	23	24	25	26
27 Complete Practice Set #4	28 Start Practice set #5	29	30	31		

August						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3 Complete Practice Set #5	4 Start Practice Set #6	5	6	7	8	9
10 Complete Practice Set #6	11 Start Practice Set #7	12	13	14	15	16
17 Complete Practice Set #7	18 Start Practice Set #8	19	20	21	22	23
24 Complete Practice Set #8	25 Start Practice set #9	26	27	28	29	30
31 Complete Practice Set #9						

**Practice Set #1**

Directions: Simplify the following expressions. You must show all your work.

1. $8x - 9y + 16x + 12y$	2. $5n - (3 - 4n)$
3. $9(6x - 2) - 3(9x^2 - 3)$	4. $3(18z - 4w) + 2(6w - 10z)$

**Practice Set #2**

Directions: Solve each equation. You must show all your work.

1. $5x - 2 = 33$	2. $8(3x - 4) = 196$
3. $-131 + -5(3x - 8) + 6x$	4. $12x + 8 - 15 = -2(3x - 82)$

### Practice Set #3

Directions: Simplify each expression using the laws of exponents. Write in your own words the rules you used to simplify the expression.

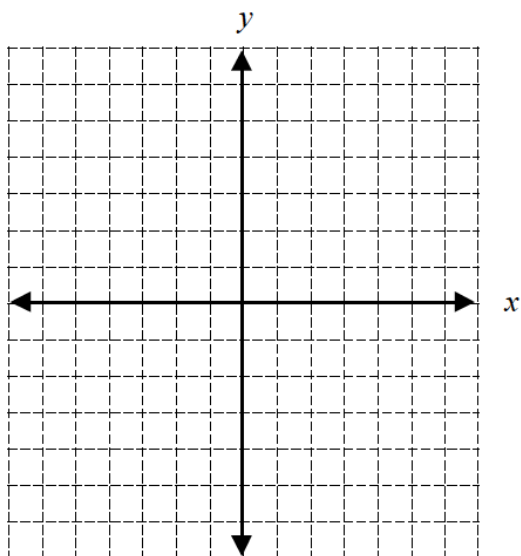
1. $(c^5)(c)(c^2) =$	<hr/> <hr/> <hr/> <hr/>
2. $d^0 =$	<hr/> <hr/> <hr/> <hr/>
3. $\frac{12a^4b^6}{36ab^2c} =$	<hr/> <hr/> <hr/> <hr/>

### Practice Set #4

Directions: Find the slope between the given two points. You must show all work. You may use the coordinate plane provided if you choose.

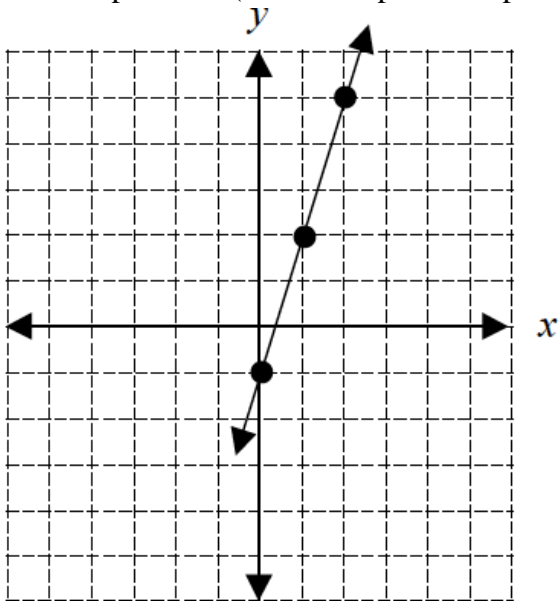
1.  $(-1, 4)$  and  $(1, -2)$

2.  $(2, -4)$  and  $(6, -4)$



### Practice Set #5

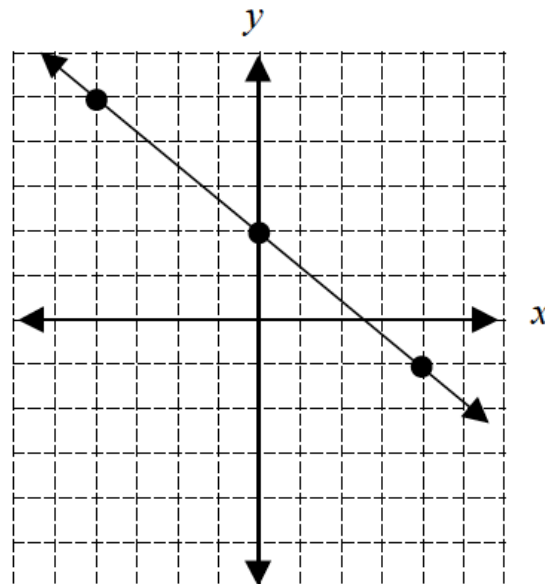
Directions: For the following graphs, identify the slope and y-intercept; then write the equation in slope intercept form. (HINT: Slope intercept form means  $y = mx + b$ )



slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_



slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

equation: \_\_\_\_\_

Directions: Find the exact value of the x-intercept of one of the linear functions above. You must show all work.

## Practice Set #6

Directions: For each of the questions below, write the slope and y-intercept; then graph each equation.

1.  $y = -\frac{3}{5}x + 4$

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

2.  $y = x + 2$

slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

3.  $y = -3x$

slope: \_\_\_\_\_

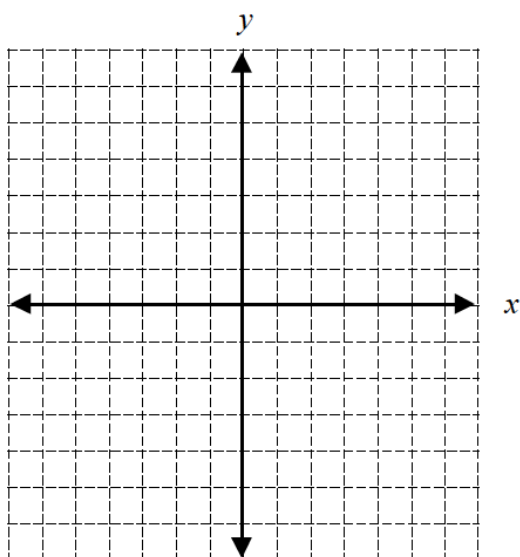
y-intercept: \_\_\_\_\_

4.  $y = \frac{4}{3}x - 3$

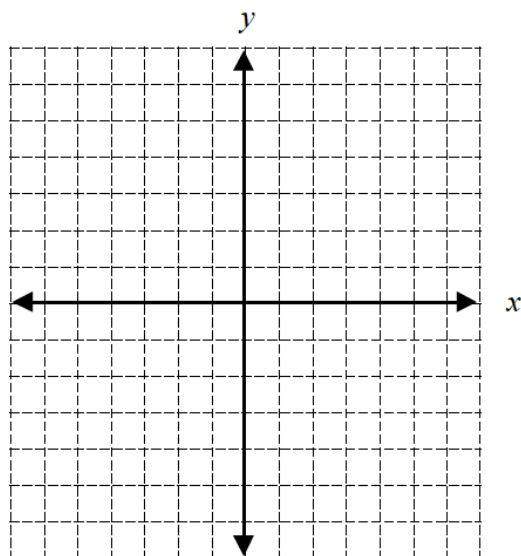
slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

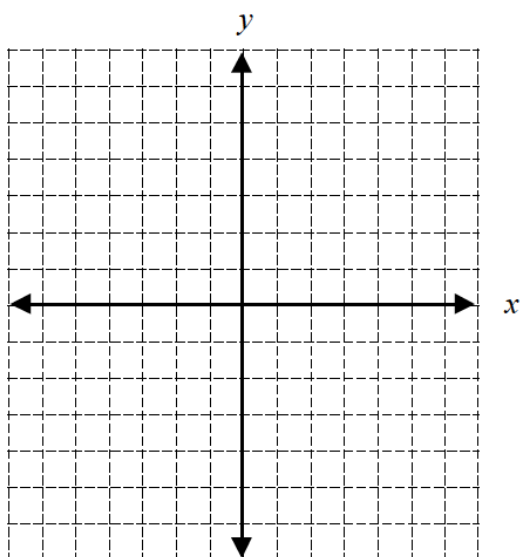
problem #1



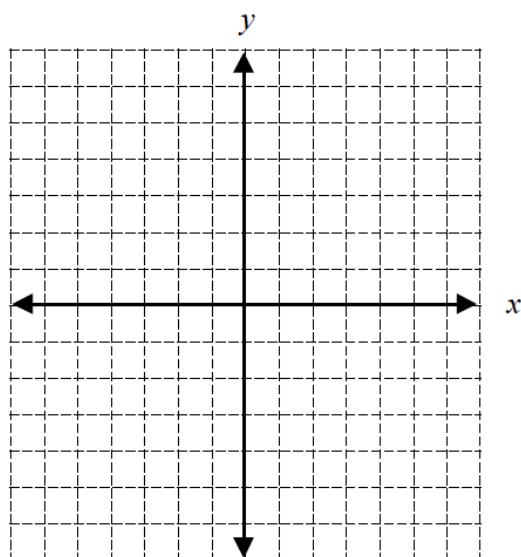
problem #2



Problem #3



problem #4



### Practice Set #7

Directions: Determine whether the lines are parallel, perpendicular or neither. You must explain your reasoning.

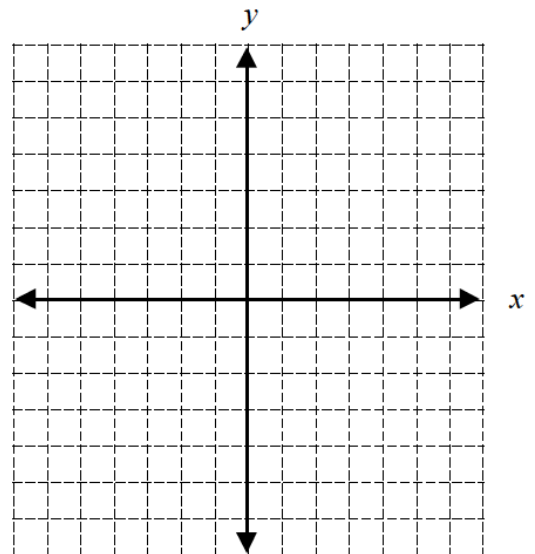
1. $y = 2x - 3$ $y = -\frac{1}{2}x + 7$	<hr/> <hr/> <hr/> <hr/>
2. $y = \frac{1}{4}x - 3$ $y = \frac{1}{4}x$	<hr/> <hr/> <hr/> <hr/>
3. $y = 7x + 1$ $y = -7x$	<hr/> <hr/> <hr/> <hr/>

### Practice Set #8

Directions: Answer the following questions using:

$$3x - 6y = 12$$

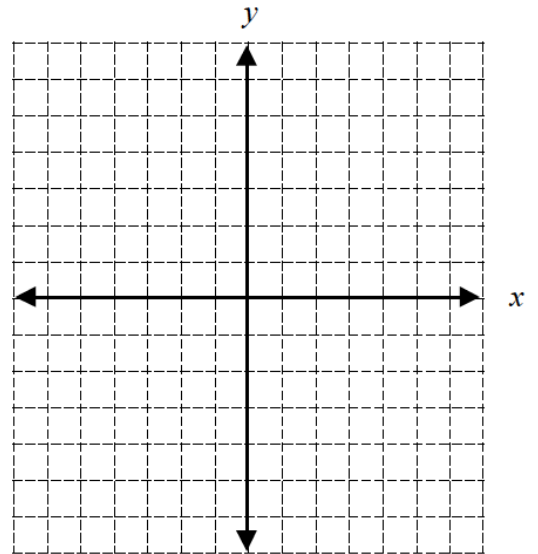
- What is the slope? \_\_\_\_\_
- Is the function increasing or decreasing?  
\_\_\_\_\_
- What is the y-intercept? \_\_\_\_\_
- What is the x-intercept? \_\_\_\_\_
- Graph the it on the grid to the right



### Practice Set #9

Directions: Complete the table and graph the following equation:  $y = x^2 - 2x - 8$ .

x	y
-1	
0	
1	
2	
3	



Directions: Solve the following equation using the quadratic formula:  $2x^2 - 3x - 20 = 0$